

Patent claims

1. A heat shield element (26), in particular for the inner lining of the combustion chamber (4) of a gas turbine (1), having a basic body (28) which is formed from a strengthened cast ceramic material and in which a number of reinforcing elements (30) are placed.
2. The heat shield element (26) as claimed in claim 1, in which the or each reinforcing element (30) is formed from a ceramic composite material.
3. The heat shield element (26) as claimed in claim 1 or 2, in which the or each reinforcing element (30) has a number of beads and/or thickened portions.
4. The heat shield element (26) as claimed in one of claims 1 to 3, in which the or each reinforcing element (30) comprises a flat plate arranged in parallel and at a distance from the surface of the basic body (28).
5. The heat shield element (26) as claimed in claim 4, whose reinforcing element (30) of plate-shaped design has a number of apertures.
- 25 6. The heat shield element (26) as claimed in one of claims 1 to 5, in which the or each reinforcing element (30) has a lattice structure.
- 30 7. The heat shield element (26) as claimed in one of claims 1 to 3, the reinforcing element (30) of which has a rod shape and runs along a peripheral edge of the basic body (28).
- 35 8. The heat shield element (26) as claimed in one of claims 1 to 3, the reinforcing element (30) of which has a cross shape, the ends being positioned in the region of the corners of the basic body (28).

9. The heat shield element (26) as claimed in one of claims 1 to 3, the reinforcing element (30) of which has an annular closed shape and runs along the 5 periphery of the basic body (28).

10. A combustion chamber (4) having an inner wall lining of heat shield elements (26) as claimed in one of claims 1 to 9.

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11. A gas turbine (1) having a combustion chamber (4) as claimed in claim 10.